

VMware Aria Automation: Install, Configure, Manage

Course Overview

During this five-day course, you focus on installing, configuring, and managing VMware® Aria Automation™ 8.17 on-premises systems. You learn to use VMware Aria Automation to automate the delivery of virtual machines, applications, and personalized IT services across different data centers and hybrid cloud environments. The course covers how VMware® Aria Automation Service Broker™ can aggregate content in native formats from multiple clouds and platforms into a common catalog.

This course also covers interfacing VMware Aria Automation with other systems using VMware® Aria Automation Orchestrator™ and how to use VMware Aria Automation to manage Kubernetes systems and use other systems. In this course, you will use VMware® Aria Automation Config™ as a configuration management tool.

Course Objectives

By the end of the course, you should be able to meet the following objectives:

- Install and configure VMware Aria Automation
- Describe the VMware Aria Automation architecture and its use cases in multitenant cloud environments
- Identify the roles of VMware Identity Manager and VMware Aria Suite Lifecycle
- Configure and manage cloud accounts and projects for compute resources
- Configure, customize, and manage VMware Aria Automation Templates
- Configure VMware Aria Automation Service Broker for creating a self-service catalog
- Use the self-service portal to request and manage deployments in VMware Aria Automation
- Integrate NSX with VMware Aria Automation
- Integrate VMware Aria Automation with VMware Cloud Foundation
- Describe VMware Aria Automation extensibility
- Use and manage Kubernetes clusters from VMware Aria Automation
- Use VMware Aria Automation Config for software deployment and configuration management
- Identify the key log files and commands to troubleshoot VMware Aria Automation

Target Audience

System administrators and system integrators responsible for designing, implementing, and managing VMware Aria Automation

Prerequisites

This course requires the students to have strong knowledge on basic VMware vSphere® concepts.

Students should be able to perform the following tasks with no assistance or guidance before enrolling in this course:

- Create VMware® vCenter® objects, such as data centers and folders
- Create a virtual machine using a wizard or a template
- Modify a virtual machine's hardware
- Navigate through the VMware vSphere Client

Course Modules

1 Course Introduction

- Introductions and course logistics
- Course objectives

2 VMware Aria Automation Overview and Architecture

- Describe the purpose and functionality of VMware Aria Automation
- Identify the key services offered by VMware Aria Automation
- Describe the VMware Aria Automation architecture
- Describe the use of VMware Identity Manager
- Describe the relationship between Kubernetes clusters, container, and VMware Aria Automation services

3 Installing VMware Aria Automation

- List the different VMware Aria Automation deployment types
- Describe the purpose of Easy Installer
- Describe the VMware Aria Automation installation process

4 Authentication and Authorization

- Identify the steps to integrating VMware Identity Manager with Active Directory
- Describe the features of VMware Identity Manager
- Describe the user roles available in VMware Aria Automation
- Identify the key tasks performed by each user role
- Define custom roles
- Configure branding and multitenancy

5 Basic Initial Configuration

- List the VMware Aria Automation basic configuration steps for creating and deploying a VMware Aria Automation template
- Create a basic configuration with a cloud account, cloud zone, project, flavor mapping, and image mapping

6 VMware Aria Automation Templates

- Configure and deploy a basic VMware Aria Automation template

- Create a VMware Aria Automation template that can run on any cloud
- Use cloudConfig and cloudbase-init to run commands, create users, and install software
- Use YAML for inputs, variables, and conditional deployments

7 Using VMware Aria Automation Tags

- Configure tags
- Describe functions of tags
- Manage tags

8 Configuring Storage in VMware Aria Automation

- Configure storage profiles
- Use tags and storage profiles

9 Integrating NSX With VMware Aria Automation

- List the capabilities and use cases of NSX
- Describe the NSX architecture and components
- Integrate NSX with VMware Aria Automation
- List the supported network profiles in VMware Aria Automation
- Use the NSX components to design a multitenant application with VMware Aria Automation Templates
- Identify the network and security options available in design canvas
- Create and manage on-demand networks and security groups
- Configure NSX Day 2 actions

10 Integrating VMware Aria Automation with Cloud Systems

- Configure and use VMware Cloud Foundation® accounts
- Configure and use a VMware® Cloud Director™ account
- Configure and use an AWS cloud account
- Configure and use an Azure cloud account
- Configure and use a Google Cloud Platform cloud account

11 Using VMware Aria Automation Service Broker

- Release a VMware Aria Automation template
- Define content source and content sharing



VMware, Inc. 3401 Hillview Avenue Palo Alto CA 94304 USA Tel 877-486-9273 Fax 650-427-5001 www.vmware.com

© 2024 VMware, Inc. All rights reserved. The product or workshop materials is protected by U.S. and international copyright and intellectual property laws. VMware products are covered by one or more patents listed at <http://www.vmware.com/download/patents.html>. VMware is a registered trademark or trademark of VMware, Inc. in the United States and/or other jurisdictions. All other marks and names mentioned herein may be trademarks of their respective companies.

VMware warrants that it will perform these workshop services in a reasonable manner using generally accepted industry standards and practices. THE EXPRESS WARRANTY SET FORTH IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE SERVICES AND DELIVERABLES PROVIDED BY VMWARE, OR AS TO THE RESULTS WHICH MAY BE OBTAINED THEREFROM. VMWARE WILL NOT BE LIABLE FOR ANY THIRD-PARTY SERVICES OR PRODUCTS IDENTIFIED OR REFERRED TO CUSTOMER. All materials provided in this workshop are copyrighted by VMware ("Workshop Materials"). VMware grants the customer of this workshop a license to use and make reasonable copies of any Workshop Materials strictly for the purpose of facilitating such company's internal understanding, utilization and operation of its licensed VMware product(s). Except as set forth expressly in the sentence above, there is no transfer of any intellectual property rights, or any other license granted under the terms of this workshop. If you are located in the United States, the VMware contracting entity for the service will be VMware, Inc., and if outside of the United States, the VMware contracting entity will be VMware International Limited.

- Define VMware Aria Automation policy enforcement
- Use custom forms for catalog items

12 VMware Aria Automation Extensibility

- Describe VMware Aria Automation extensibility
- Use event topics
- Create a subscription
- Call a VMware Aria Automation Orchestrator workflow
- Create ABX actions

13 Integration with Kubernetes

- Explore Kubernetes integration
- Describe a Tanzu Kubernetes cluster deployment
- Connect to an existing Kubernetes cluster
- Create a VMware Aria Automation template with Kubernetes components

14 Introduction to VMware Aria Automation Config

- Describe VMware Aria Automation Config
- Use VMware Aria Automation Config for software deployment
- Use VMware Aria Automation Config for configuration management
- Use VMware Aria Automation Config with event-driven orchestration

15 Troubleshooting and Integration with VMware Aria Suite

- Demonstrate how to monitor deployment history
- Demonstrate basic troubleshooting
- Execute CLI commands
- Explain how to collect logs
- Describe integration with VMware® Aria Operations™ for Logs
- Describe integration with VMware Aria Operations



VMware, Inc. 3401 Hillview Avenue Palo Alto CA 94304 USA Tel 877-486-9273 Fax 650-427-5001 www.vmware.com

© 2024 VMware, Inc. All rights reserved. The product or workshop materials is protected by U.S. and international copyright and intellectual property laws. VMware products are covered by one or more patents listed at <http://www.vmware.com/download/patents.html>. VMware is a registered trademark or trademark of VMware, Inc. in the United States and/or other jurisdictions. All other marks and names mentioned herein may be trademarks of their respective companies.

VMware warrants that it will perform these workshop services in a reasonable manner using generally accepted industry standards and practices. THE EXPRESS WARRANTY SET FORTH IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE SERVICES AND DELIVERABLES PROVIDED BY VMWARE, OR AS TO THE RESULTS WHICH MAY BE OBTAINED THEREFROM. VMWARE WILL NOT BE LIABLE FOR ANY THIRD-PARTY SERVICES OR PRODUCTS IDENTIFIED OR REFERRED TO CUSTOMER. All materials provided in this workshop are copyrighted by VMware ("Workshop Materials"). VMware grants the customer of this workshop a license to use and make reasonable copies of any Workshop Materials strictly for the purpose of facilitating such company's internal understanding, utilization and operation of its licensed VMware product(s). Except as set forth expressly in the sentence above, there is no transfer of any intellectual property rights, or any other license granted under the terms of this workshop. If you are located in the United States, the VMware contracting entity for the service will be VMware, Inc., and if outside of the United States, the VMware contracting entity will be VMware International Limited.